

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the present application.

LISTING OF CLAIMS

1. (Currently Amended) A data distribution system comprising a first terminal having data and a second terminal, wherein the system distributes data configured for the second terminal from the first terminal to the second terminal,

wherein the first terminal comprises:

a data recorder that records data of a plurality of formats;

a data distribution request receiver that receives a distribution request for data in a format configured for the second terminal and that receives a URL, the URL comprising an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded, the URL being transmitted from the second terminal;

a terminal information acquirer that accesses [[the]] a location defined by the URL and acquires [[the]] capability information of the second terminal from the address identified by the URL[[:]]; ;

a data selector that selects data in a format configured for the second terminal on the basis of the acquired capability information of the second terminal; and

a data transmitter that transmits the selected data to the second terminal, and

wherein the second terminal comprises:

a terminal information describer that describes the capability information of the second terminal in a tree structure;

a transmitter that transmits the capability information of the second terminal, described in the tree structure, to a predetermined URL;

a recorder that records the capability information of the second terminal at the URL;

a data distribution requestor that requests the first terminal to distribute data configured for the second terminal and that notifies the first terminal of the URL at which the capability information of the second terminal is recorded; and

a data receiver that receives the data from the first terminal,

wherein a subset of branches in the tree structure is selected to at least one of choose and configure the data for the second terminal, the data being implementable by the second terminal, the second terminal having a subset of terminal capabilities corresponding to the subset of branches in the tree structure.

2. (Currently Amended) A first terminal in a data distribution system that distributes data configured for a second terminal from the first terminal having the data to the second terminal, the first terminal comprising:

a data recorder that records data of a plurality of formats;

a data distribution request receiver that receives a distribution request for data in a format configured for the second terminal and that receives a URL, the URL comprising an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded, the URL being transmitted from the second terminal;

a terminal information acquirer that accesses the location defined by the URL and acquires [[the]] capability information of the second terminal from the address defined by the URL;

a data selector that selects data in a format configured for the second terminal on the basis of the acquired capability information of the second terminal; and

a data transmitter that transmits the selected data to the second terminal,

wherein a subset of branches in a tree structure describing terminal capabilities of the second terminal is selected to at least one of choose and configure the data for the second terminal, the data being implementable by the second terminal, the second terminal having a subset of terminal capabilities corresponding to the subset of branches in the tree structure.

3. (Currently Amended) A second terminal in a data distribution system that distributes data configured for the second terminal from a first terminal having data to the second terminal, the second terminal comprising:

a terminal information describer that describes capability information of the second terminal in a tree structure;

a transmitter that transmits [[the]] capability information of the second terminal, described in the tree structure, to a predetermined URL, the predetermined URL comprising an address configured to record only [[the]] capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal;

a recorder that records the capability information of the second terminal at the predetermined URL;

a data distribution requester that requests the first terminal to distribute data configured for the second terminal and that notifies the first terminal of the predetermined URL at which the capability information of the second terminal is recorded; and

a data receiver that receives the data from the first terminal,

wherein a subset of branches in a tree structure describing terminal capabilities of the second terminal is selected to at least one of choose and configure the data for the second terminal, the data being implementable by the second terminal, the second terminal having a subset of terminal capabilities corresponding to the subset of branches in the tree structure.

4. (Currently Amended) A terminal that, in a data distribution system that distributes data configured for a second terminal, from a first terminal having data to the second terminal, the terminal comprising a location defined by a URL which can be accessed by the first and second terminals and records only capability information of the second terminal, the terminal comprising:

a terminal information receiver that receives a tree structure description of the capability information of the second terminal from the second terminal;

a terminal information recorder that records information of the second terminal; and

a terminal information transmitter that transmits the information of the second terminal to the first terminal in response to a distribution request for the capability information of the second terminal, the distribution request being received from the first terminal,

wherein the URL comprises an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded,

wherein a subset of branches in a tree structure describing terminal capabilities of the second terminal is selected to at least one of choose and configure the data for the second terminal, the data being implementable by the second terminal, the second terminal having a subset of terminal capabilities corresponding to the subset of branches in the tree structure.

5. (Currently Amended) A data request method in a second terminal in a data distribution system that distributes data, configured for the second terminal, from a first terminal having data to the second terminal, the method comprising:

constructing the second terminal;

describing capability information of the second terminal in a tree structure;

transmitting [[the]] capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal described in the tree structure to a location defined by a predetermined URL to record only the capability information at the predetermined URL;

requesting the first terminal to distribute data configured for the second terminal and notifying the first terminal of the predetermined URL at which the capability information ~~informaties~~ of the second terminal is recorded; and

receiving data from the first terminal,

wherein a subset of branches in the tree structure is selected to at least one of choose and configure the data for the second terminal, the data being implementable by the second terminal, the second terminal having a subset of terminal capabilities corresponding to the subset of branches in the tree structure.

6. (Currently Amended) The data request method according to claim 5, wherein as the information of the second terminal described in the tree structure, information related to

characteristics of the second terminal, information related to an AV coding capability of the second terminal, and items of information related to a multimedia input/output of the second terminal are branched and described as branch information.

7. (Currently Amended) The data request method according to claim 5, comprising:

selecting some branch information in the tree structure of the capability information of the second terminal; and

notifying the first terminal of a URL related to the selected branch information to request the first terminal to distribute data to the second terminal.

8. (Currently Amended) The data request method according to claim 5, wherein constructing the second terminal comprises:

~~constructing the second terminal by~~ selecting a CPU, an OS, a memory, an output, and a VM (virtual machine) with respect to general characteristics;

~~constructing the second terminal by~~ selecting USB, Bluetooth, wireless802, and a serial or parallel data I/O (data input/output);

~~constructing the second terminal by~~ selecting, as a storage medium, at least one of a MultiMedia card (MMC), a Compact Flash (registered trademark), a Secure Disk (SD), a MemoryStick (MS), a hard disk (HD), a DVD, a VCD, a Zip disk, and a flexible disk;

~~constructing the second terminal by~~ selecting, as a supporting tool, at least one of a global positioning system (GPS), a Browser, Intellectual Property Management and Protection tools (IPMP tools), an RELtool (Rights Expression Language Tool), and a meta data tool;

constructing the second terminal according to a predetermined AV decoding format;

constructing the second terminal according to a supported predetermined image format supporting;

constructing the second terminal according to a supported predetermined text format supporting;

constructing the second terminal according to a supported predetermined system format supporting;

~~constructing the second terminal by~~ providing a predetermined audio output for reproducing sound or voice;

~~constructing the second terminal by~~ providing a predetermined video output for displaying a video or an image; and

~~constructing the second terminal by~~ providing a predetermined text output for displaying a text.

9. (Currently Amended) The data request method according to claim 8, wherein the constructing of the second terminal comprises:

constructing the second terminal according to a predetermined AV encoding format;

~~constructing the second terminal by~~ providing a predetermined audio input for acquiring sound or voice;

~~constructing the second terminal by~~ providing a predetermined video input for acquiring a video or an image; and

~~constructing the second terminal by~~ providing a predetermined text input for inputting a text.

10. (Currently Amended) The data request method according to claim 8, wherein constructing the second terminal according to the predetermined AV decoding format further comprises:

selecting an audio decoding supporting format;

- selecting a video decoding supporting format;
- determining a bit rate for audio decoding;
- determining a bit rate for video decoding;
- determining [[the]] a maximum bit rate for audio decoding in coding at a variable bit rate;
- determining [[the]] a maximum bit rate for video coding in coding at a variable bit rate;
- determining an average bit rate for audio decoding in coding at a variable bit rate;
- determining an average bit rate for video decoding in coding at a variable bit rate; and
- determining a limited buffer size for audio or video decoding.

11. (Currently Amended) The data request method according to claim 9, wherein constructing the second terminal according to the predetermined AV encoding format further comprises:

- selecting an audio encoding supporting format;
- selecting a video encoding supporting format;
- determining a bit rate for audio encoding;
- determining a bit rate for video encoding;
- determining [[the]] a maximum bit rate for audio encoding in coding at a variable bit rate;
- determining [[the]] a maximum bit rate for video encoding in coding at a variable bit rate;
- determining an average bit rate for audio encoding in coding at a variable bit rate;
- determining an average bit rate for video encoding in coding at a variable bit rate; and
- determining a limited buffer size for audio or video encoding.

12. (Currently Amended) The data request method according to claim 8, wherein constructing the second terminal according to the predetermined system format further comprises:

selecting a supported MPEG2 system format ~~supporting~~;
selecting a supported MPEG4 system format ~~supporting~~;
selecting a supported predetermined file format ~~supporting~~; and
selecting a supported predetermined communication protocol ~~supporting~~.

13. (Currently Amended) The data request method according to claim 8, wherein selecting the supported MPEG2 system format ~~supporting~~ further comprises:

determining a supported MPEG2 transport system (TS) format ~~supporting~~; and
determining a supported MPEG2 program system (PS) format ~~supporting~~.

14. (Currently Amended) The data request method according to claim 12, wherein selecting the supported MPEG4 system format ~~supporting~~ further comprises:

determining format ~~supporting~~ of MPEG4 system part 1;
determining format ~~supporting~~ of MPEG4 system part 11;
determining format ~~supporting~~ of MPEG4 system part 12;
determining format ~~supporting~~ of MPEG4 system part 13;
determining format ~~supporting~~ of MPEG4 system part 14;
determining format ~~supporting~~ of MPEG4 system part 15; and
determining format ~~supporting~~ of MPEG4 system part 16.

15. (Currently Amended) The data request method according to claim 12, wherein selecting the supported predetermined file format ~~supporting~~ further comprises:

determining a supported MP4 file format ~~supporting~~;
determining a supported QuickTime file format ~~supporting~~;
determining a supported AVi file format ~~supporting~~;
determining a supported MP2 file format ~~supporting~~;

- determining a supported MP21 file format ~~supporting~~;
- determining a supported ASF file format ~~supporting~~;
- determining another file format used in another area; and
- determining a future file format.

16. (Currently Amended) The data request method according to claim 12, wherein selecting the supported predetermined communication protocol further comprises:

- determining a supported RTP protocol ~~supporting~~;
- determining a supported H.323 protocol ~~supporting~~;
- determining a supported SIP protocol ~~supporting~~;
- determining a supported HTTP protocol ~~supporting~~;
- determining a supported TCP/IP protocol ~~supporting~~; and
- determining a supported another protocol ~~supporting~~.

17. (Currently Amended) A data distribution method for a first terminal in a data distribution system that distributes data configured for a second terminal, from a first terminal having data, to the second terminal, the method comprising:

- receiving a distribution request for data configured for the second terminal from the second terminal and receiving a URL from the second terminal, the URL comprising an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded;

- acquiring capability information of the second terminal described in a tree structure from the location defined by the URL;

- selecting data configured for the second terminal on the basis of the acquired capability information; and

transmitting the selected data to the second terminal,

wherein a subset of branches in the tree structure is selected to at least one of choose and configure the data for the second terminal, the data being implementable by the second terminal, the second terminal having a subset of terminal capabilities corresponding to the subset of branches in the tree structure.

18. (Currently Amended) The data distribution method according to claim 17, wherein as the information of the second terminal described in the tree structure, information related to characteristics of the second terminal, information related to an AV coding capability of the second terminal, and items of information related to a multimedia input/output of the second terminal are branched and described as branch information.

19. (Currently Amended) The data distribution method according to claim 17, wherein selecting data configured for the second terminal based on ~~the basis of~~ the acquired capability information ~~in the first terminal~~ comprises:

parsing the capability information of the second terminal described in the tree structure ~~and obtained~~ from the location defined by the URL; and

selecting data configured for the second terminal on the basis of branch information described in the tree structure and obtained by the parsing.